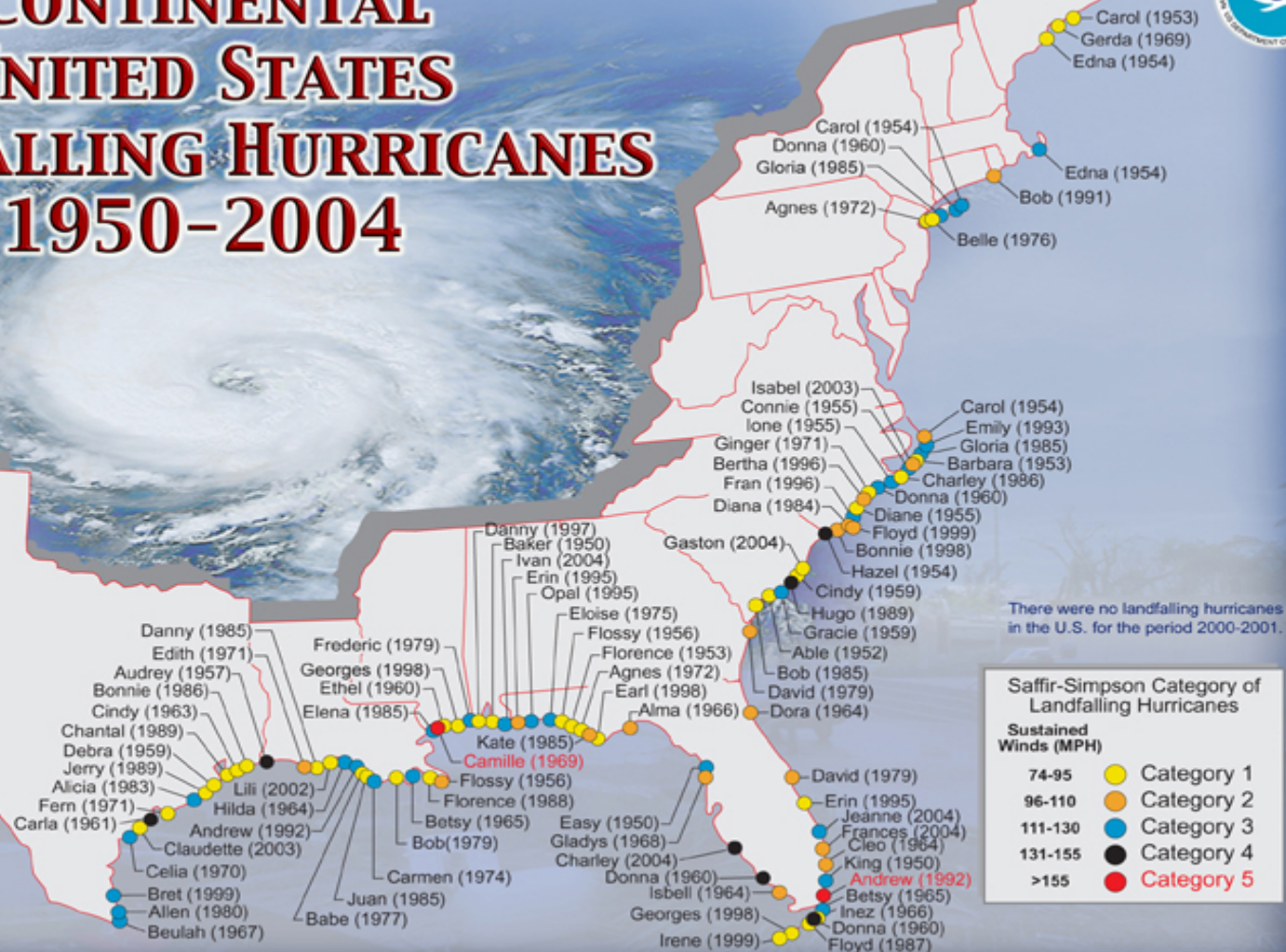


Effects of Hurricane Katrina on Mississippi's Artificial Reefs





CONTINENTAL UNITED STATES LANDFALLING HURRICANES 1950-2004



NOAA'S NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA

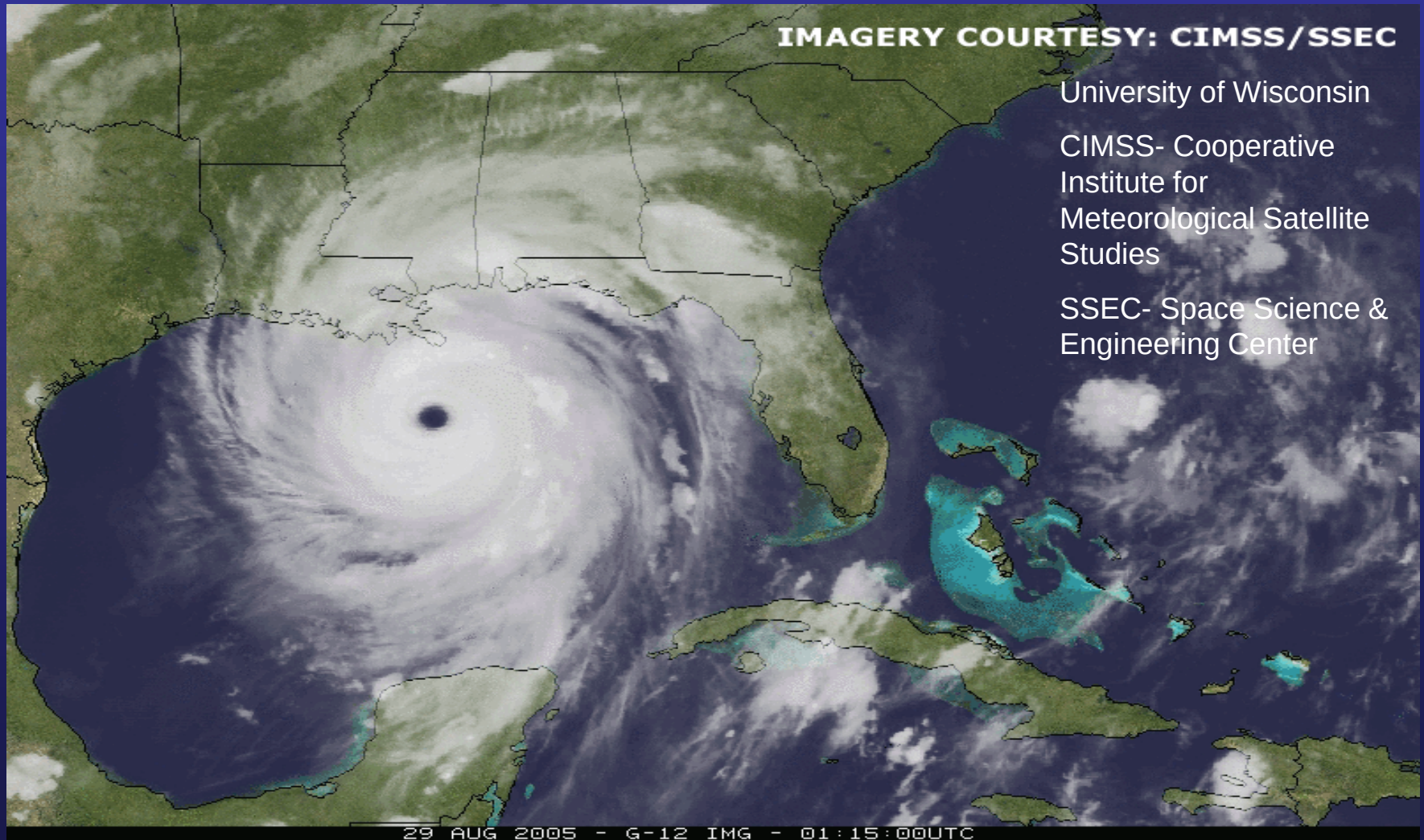
Protecting the Past... Revealing the Future

HISTORY of KATRINA

ALL TIMES EDT



KATRINA





Biloxi, MS



Ole Biloxi Oyster and Shrimp Company



Point Cadet Marina



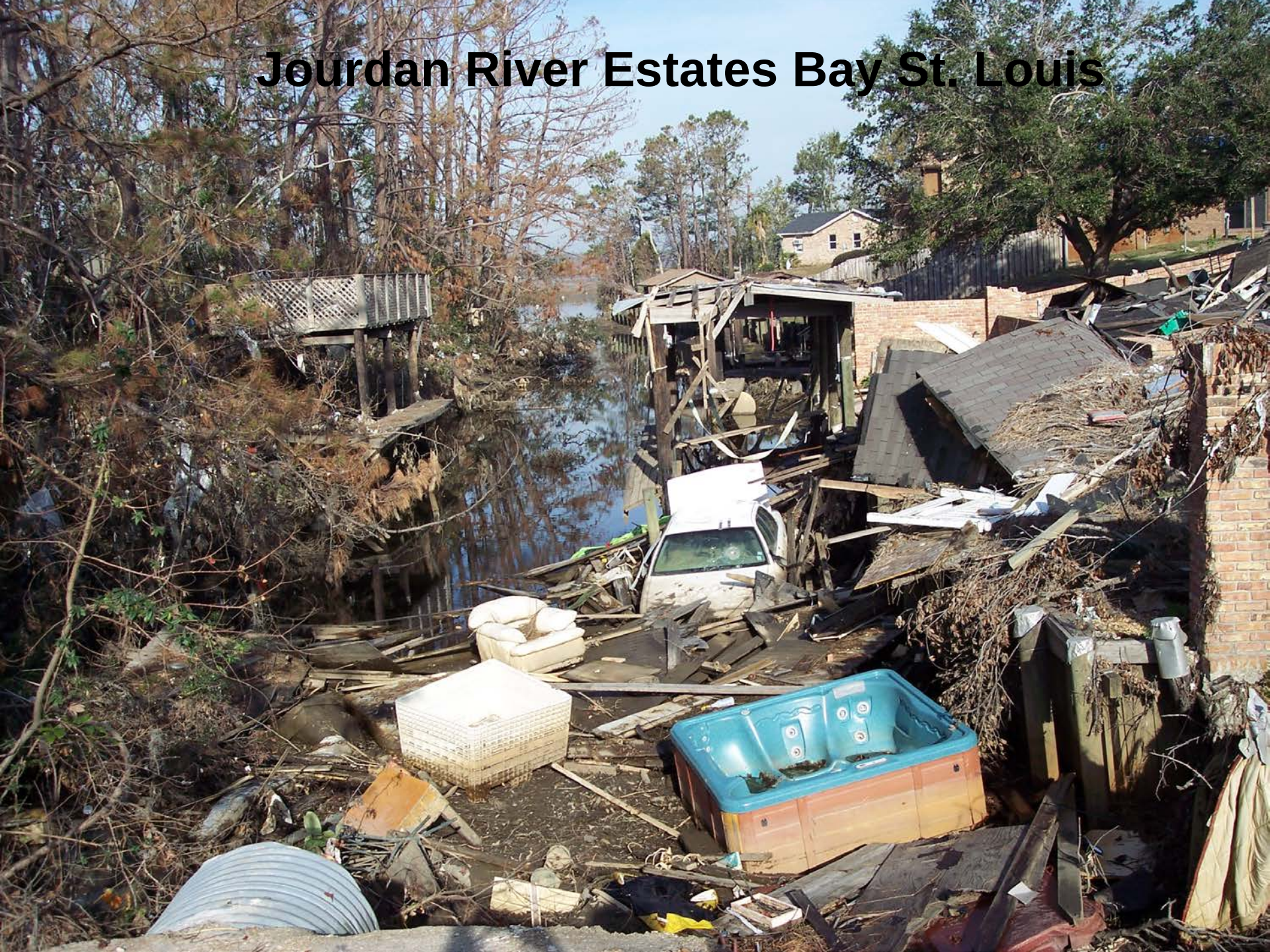
Penthouse Pier Pass Christian, MS



Hard Rock Casino. Biloxi, MS



Jourdan River Estates Bay St. Louis

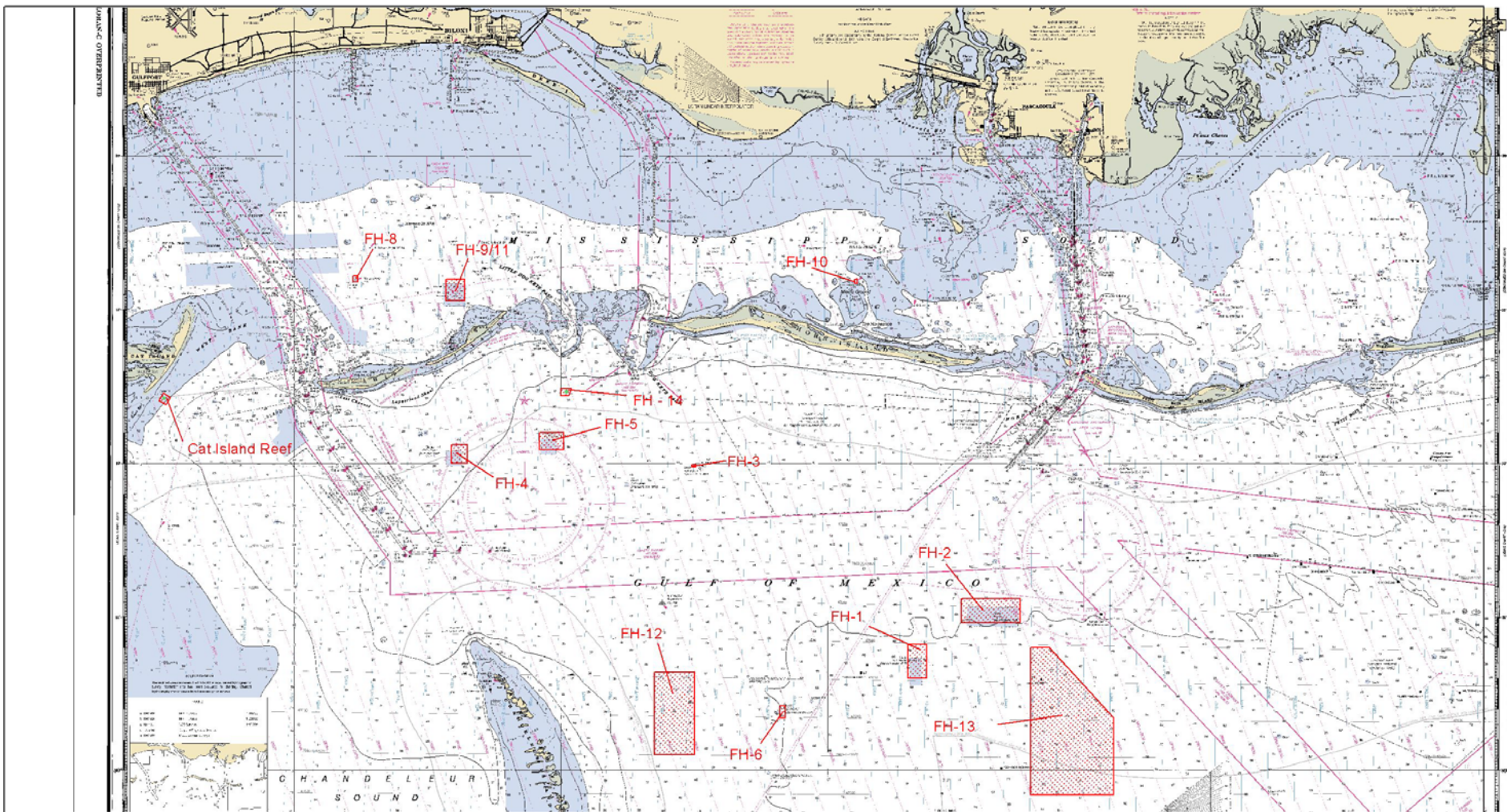


Gulfport Beach



MDMR Office
Water Level





Offshore Artificial Reef Sites

Reef Center Points

FISH HAVEN	LATITUDE	LONGITUDE
FH-1	30 03.534 N	88 36.704 W
FH-2	30 05.074 N	88 33.773 W
FH-3	30 09.929 N	88 45.020 W
FH-4	30 10.232 N	88 33.914 W
FH-5	30 10.725 N	88 40.340 W
FH-6	30 01.921 N	88 41.705 W
FH-7	29 37.227 N	88 23.863 W
FH-8	30 16.003 N	88 57.715 W
FH-9/11	30 15.612 N	88 54.000 W
FH-10	30 15.926 N	88 38.944 W
FH-12	30 01.864 N	88 45.012 W
FH-13	30 01.910 N	88 31.246 W
Rigs to Reefs	29 22.310 N	88 40.114 W
FH - 14	30 12.320 N	88 49.000 W
Cat Island	30 12.103 N	89 4.852 W

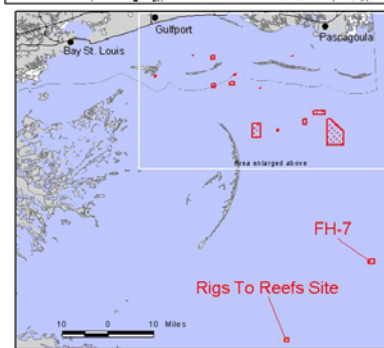
Artificial Reef Sites



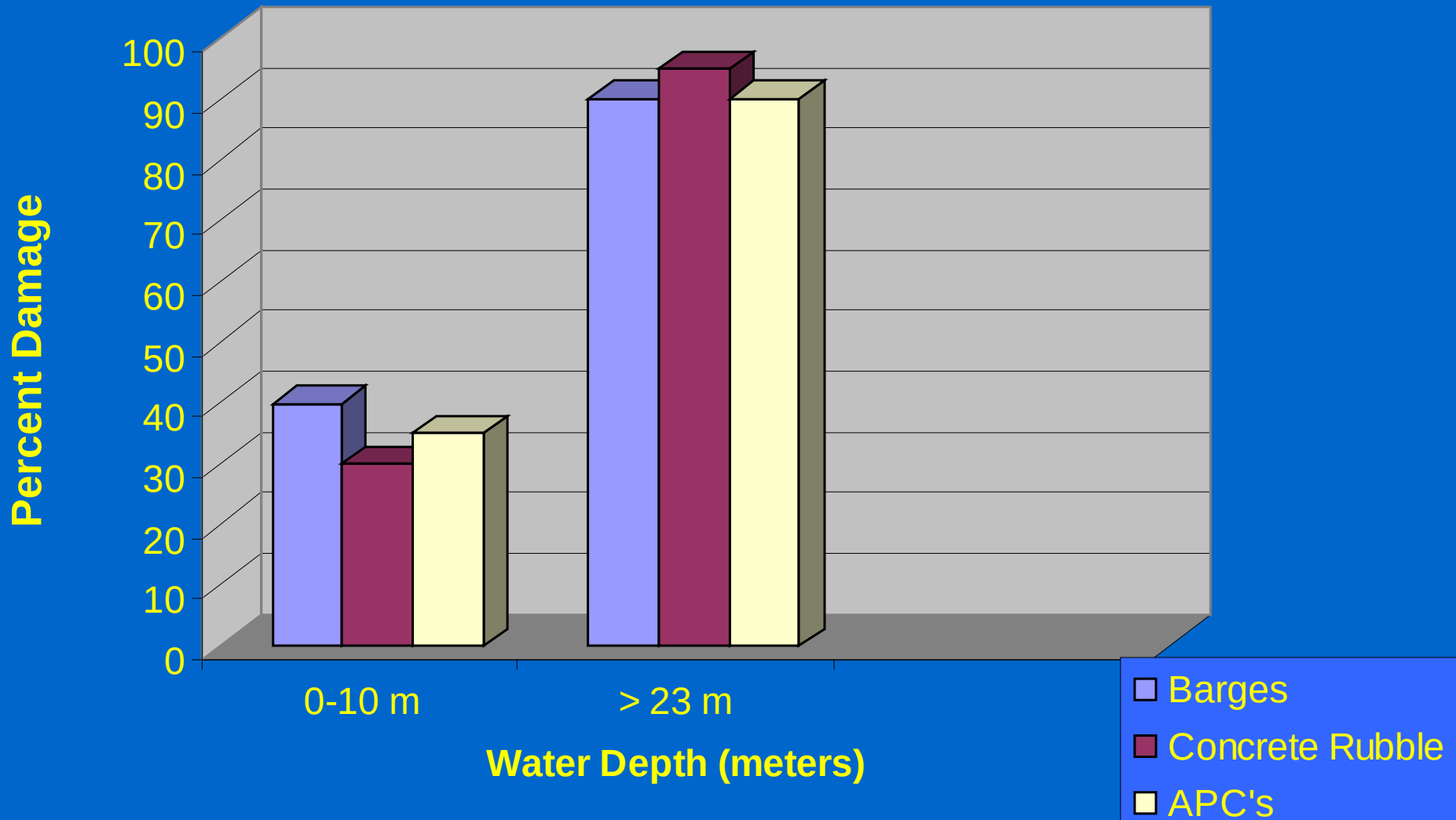
0 1 2 3 4 Miles

Based on N.O.A. Nautical Chart 11373
(Mississippi Sound + Appr. Dauphin Isl. to Cat
Isl.) 1:80000 scale Mercator projection.
Latitude of True Scale - 30.17

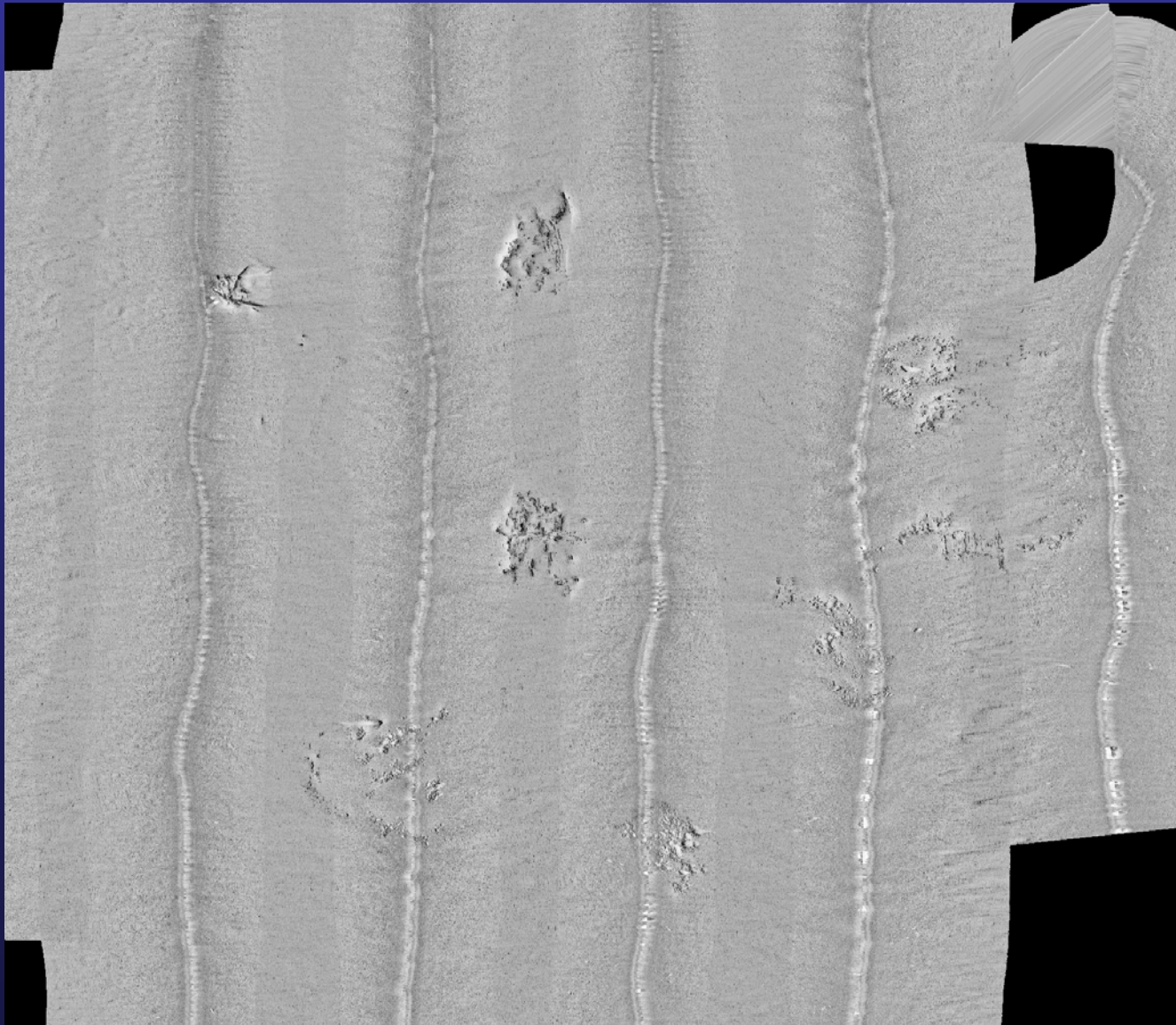
---For Planning Purposes Only---



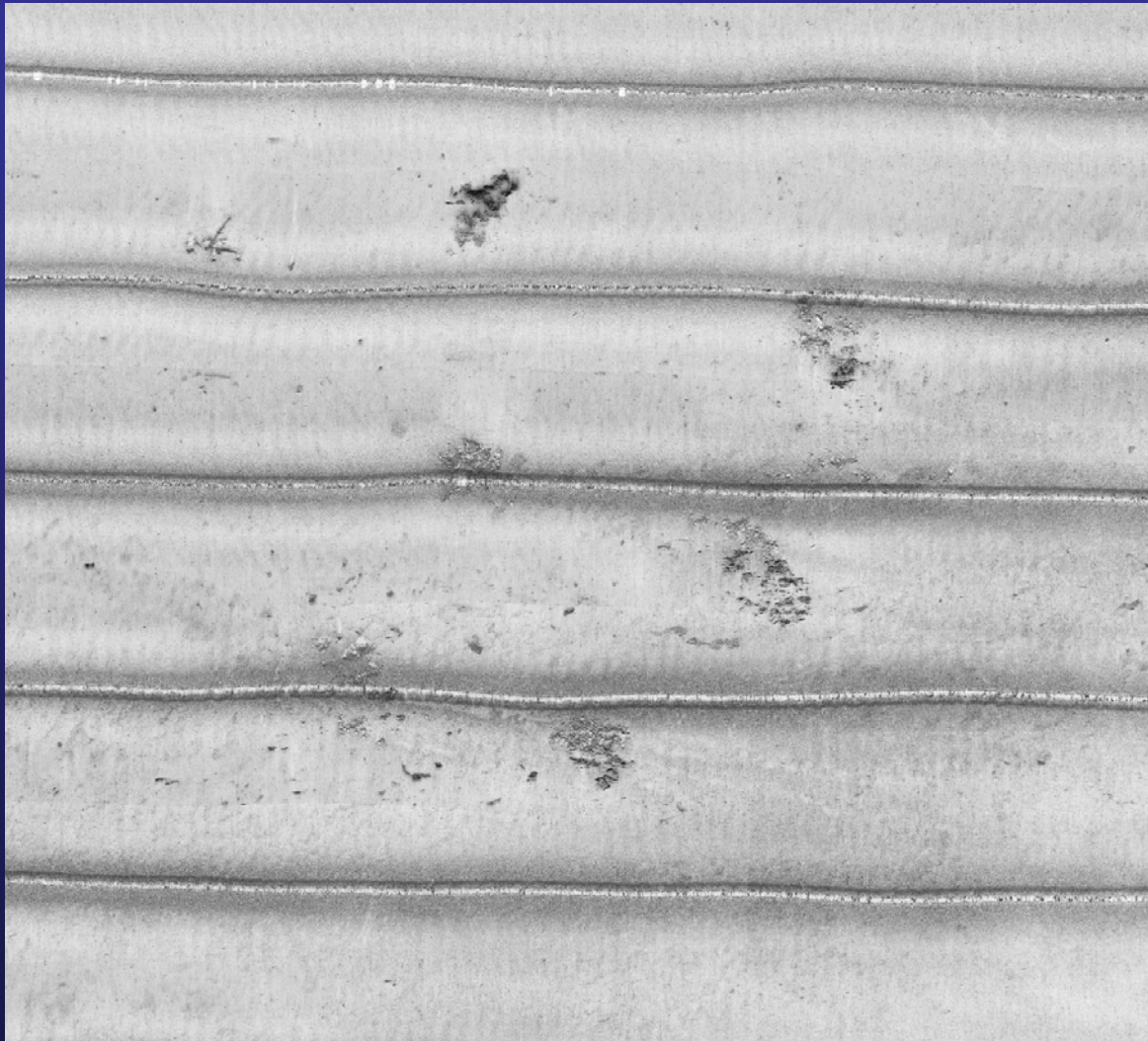
Percent Damage of Reef Material by Water Depth



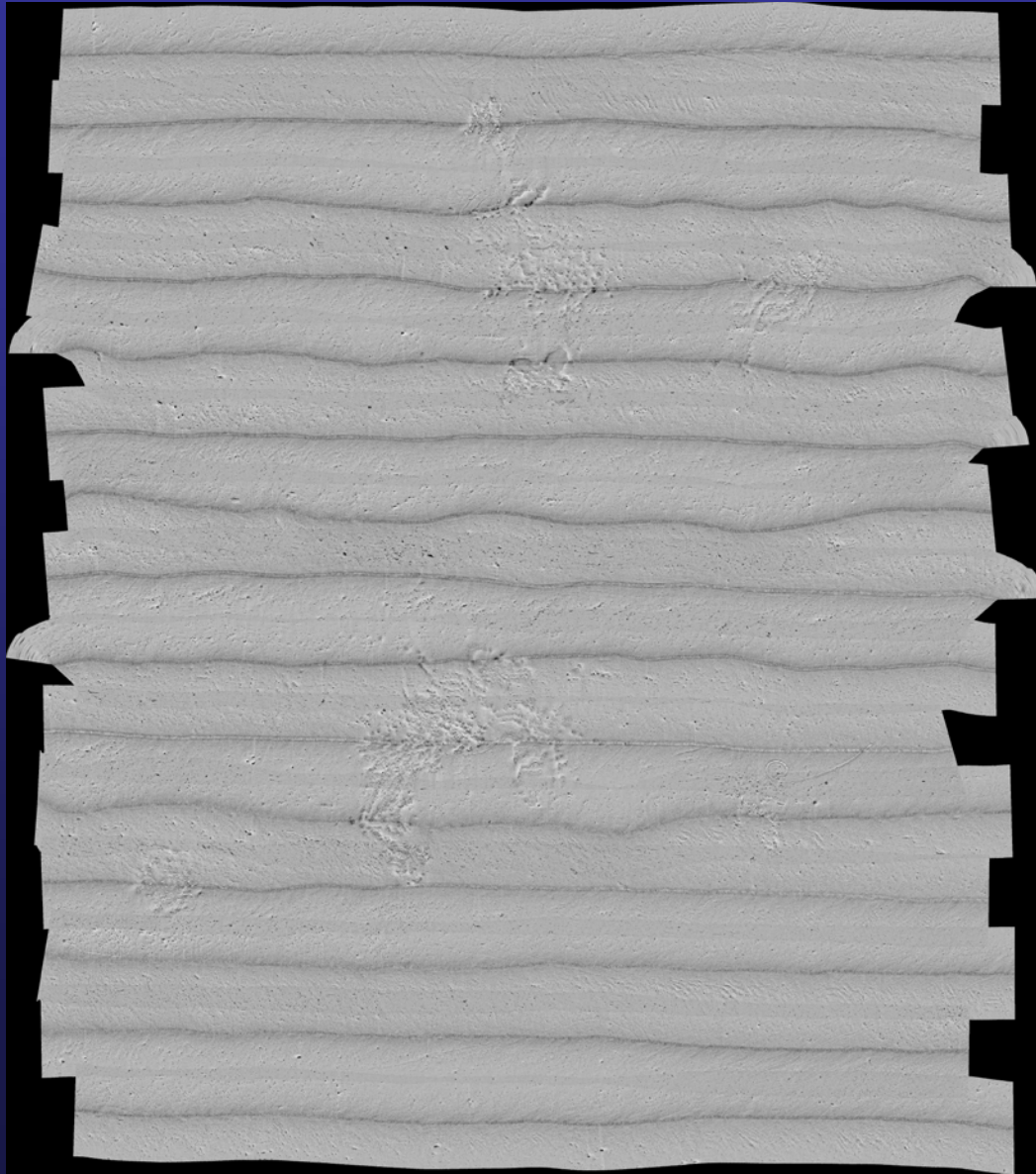
Cat Island Reef Pre-Hurricane



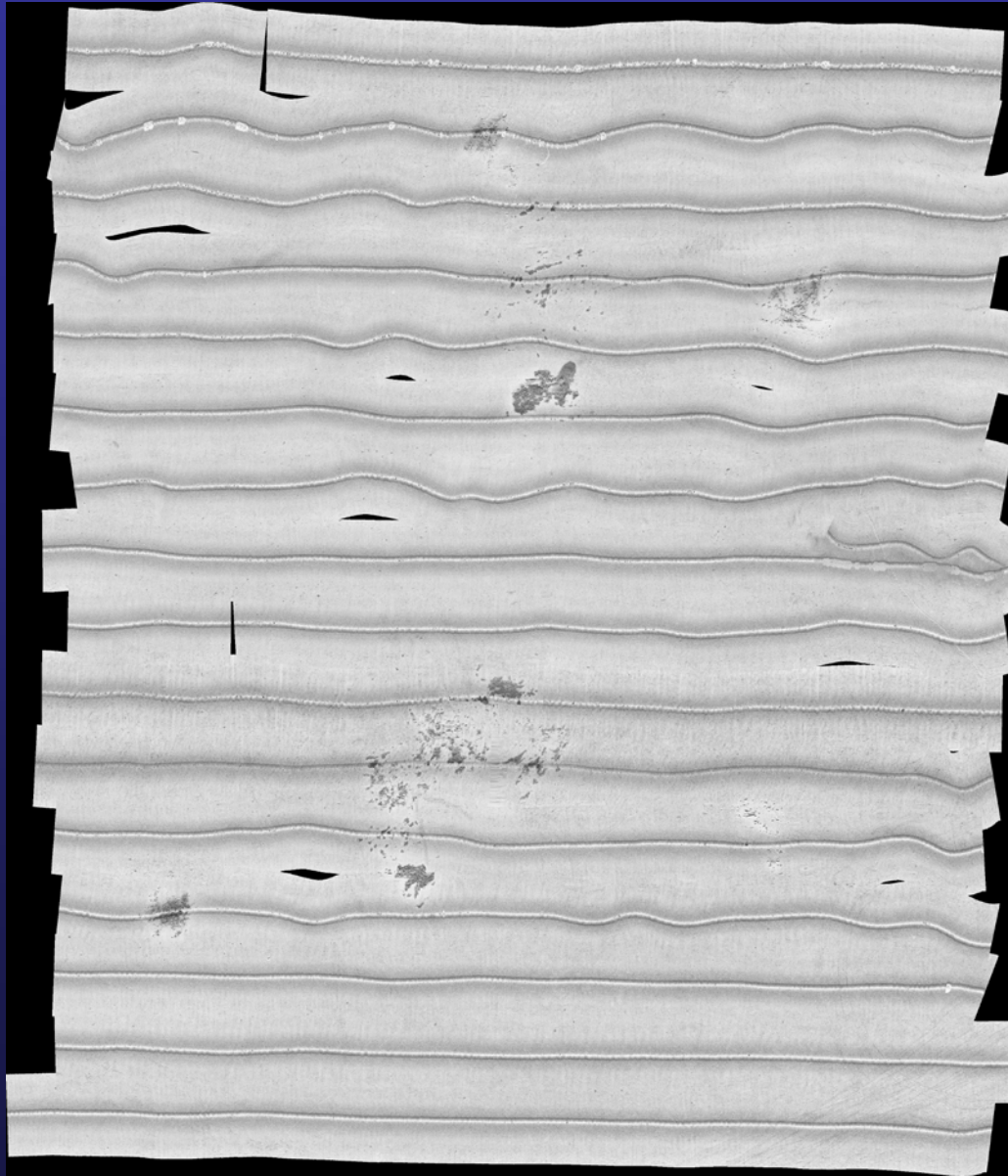
Cat Island Reef Post Hurricane



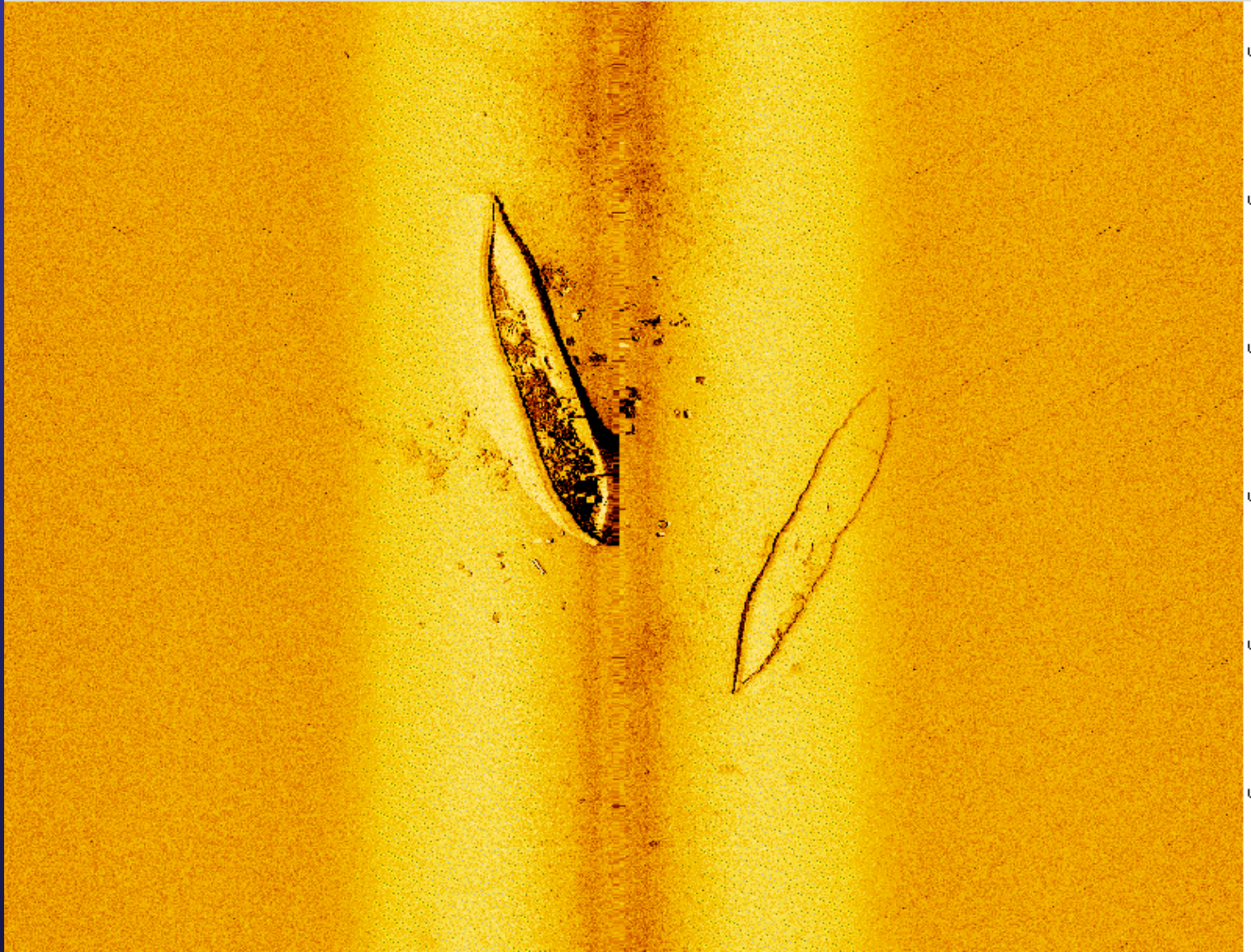
FH – 9 Pre-Hurricane



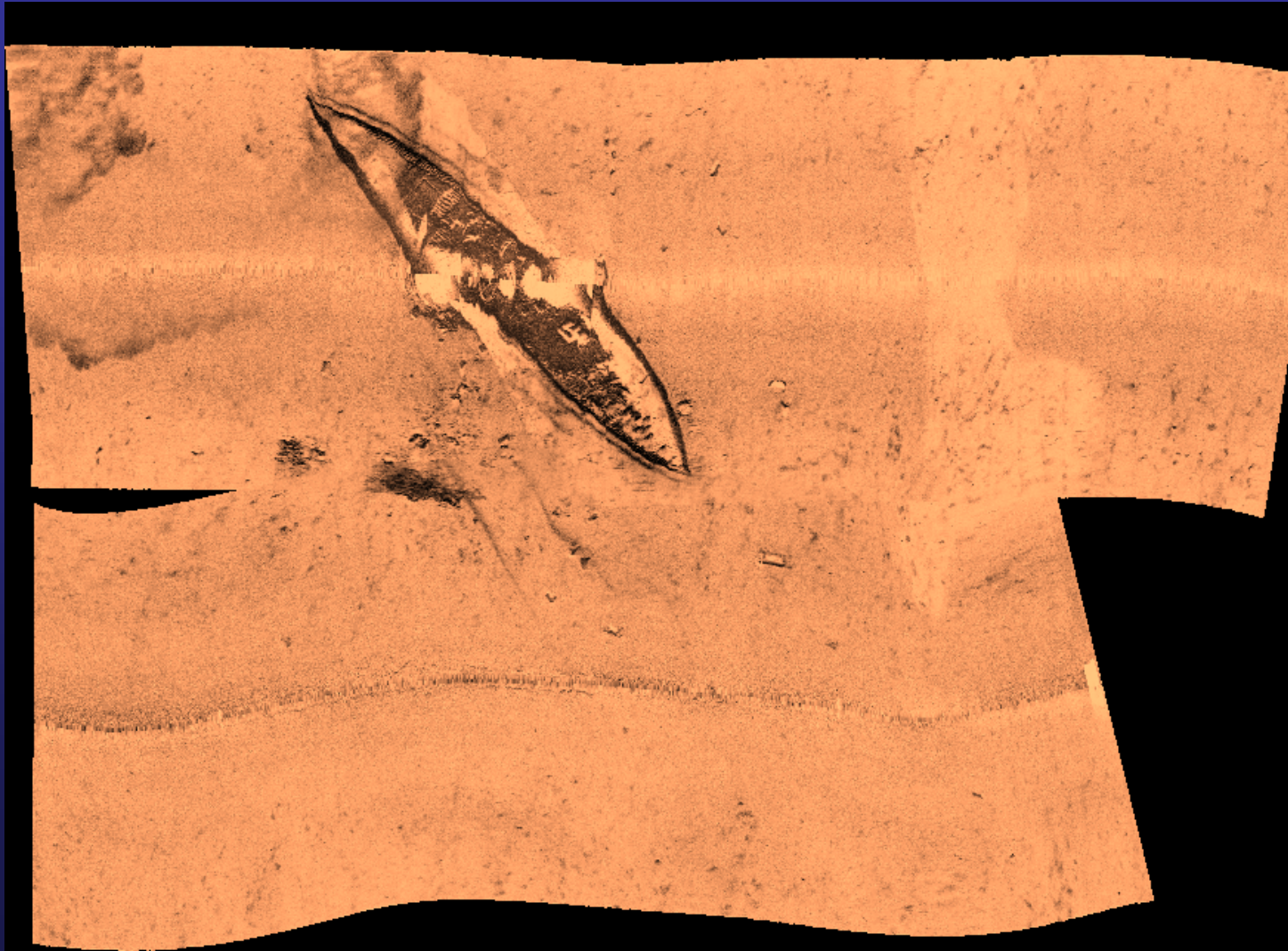
FH – 9 Post Hurricane



FH – 3 Pre-Hurricane



FH – 3 Post Hurricane



FH – 6 Pre-Hurricane

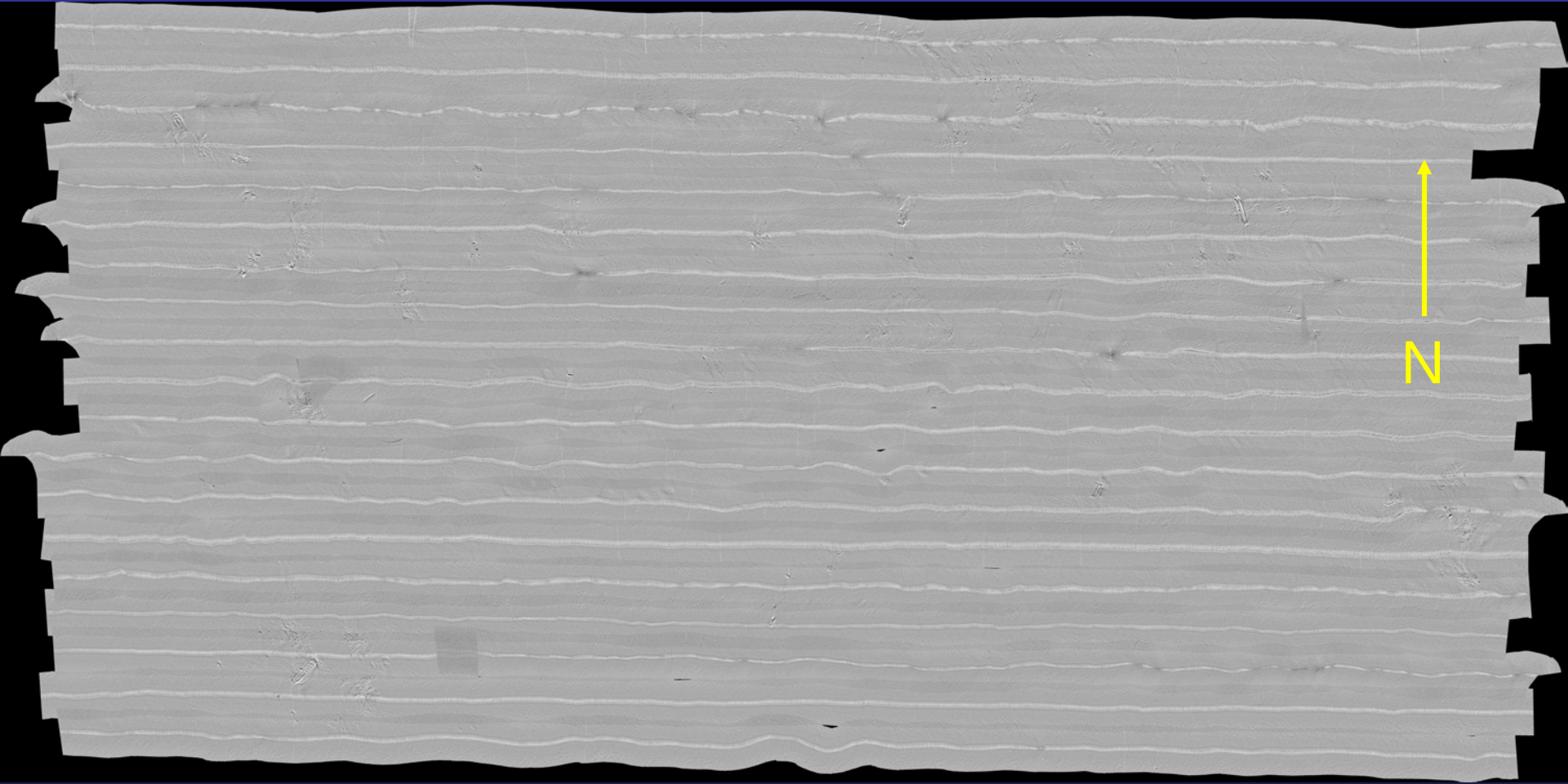


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N

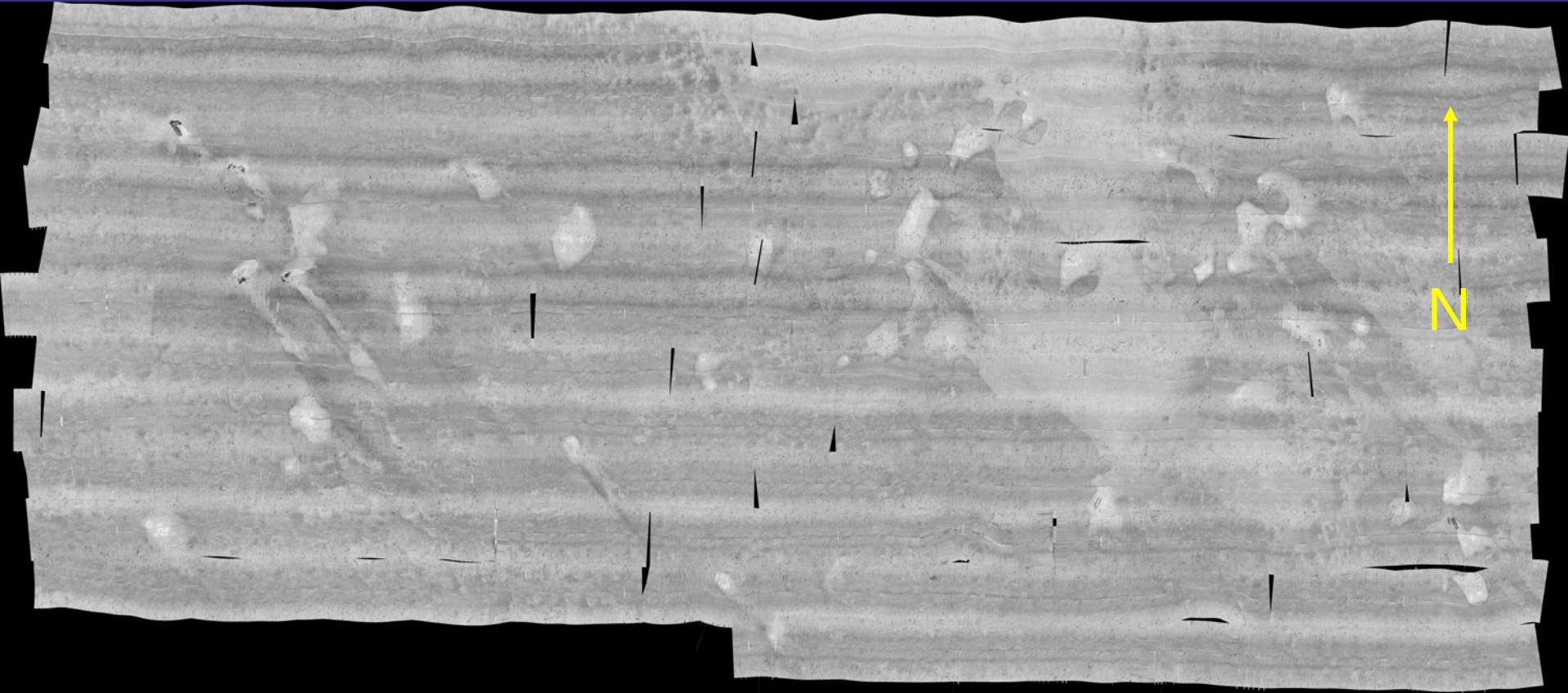
FH – 6 Post Hurricane



FH – 2 Pre-Hurricane



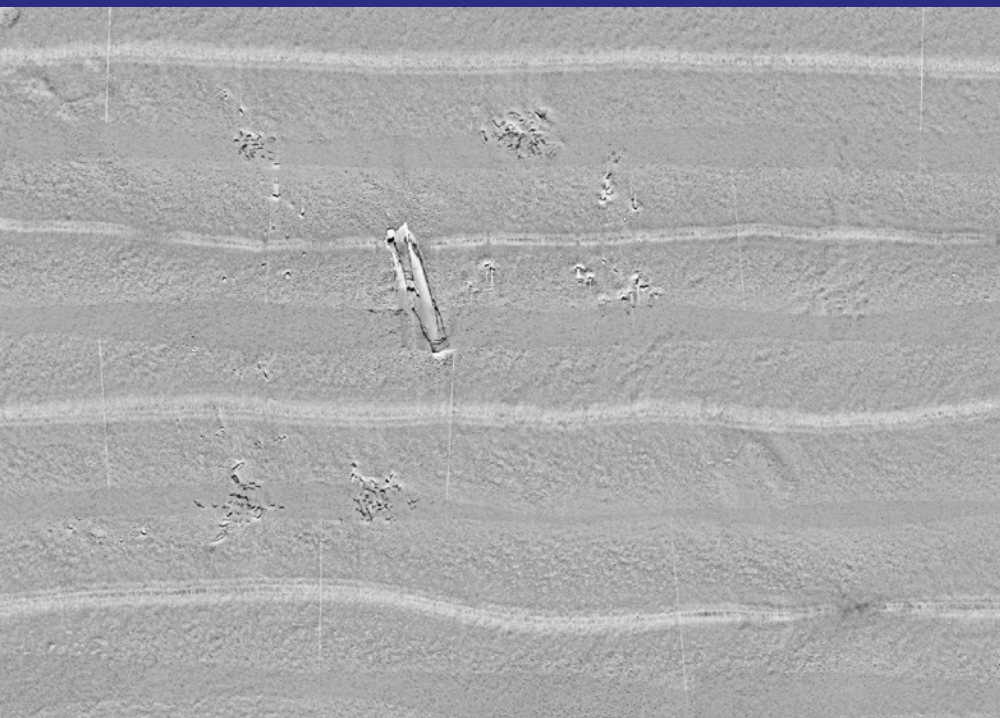
FH – 2 Post Hurricane



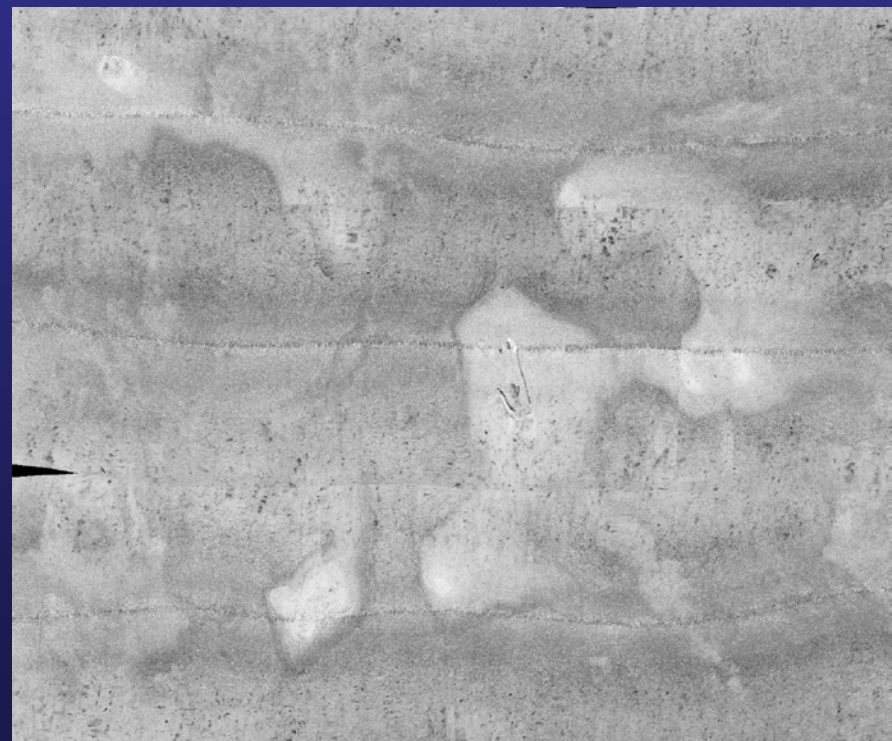
FH - 2



Pre-Hurricane



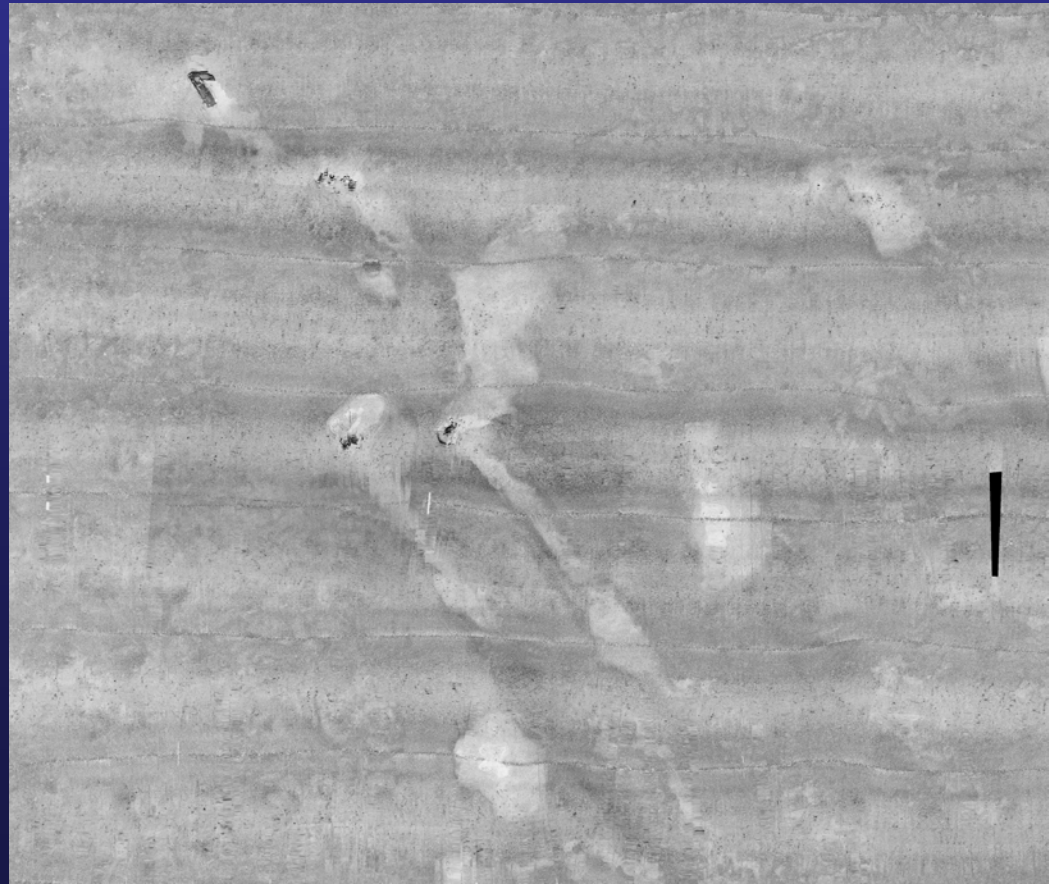
Post Hurricane



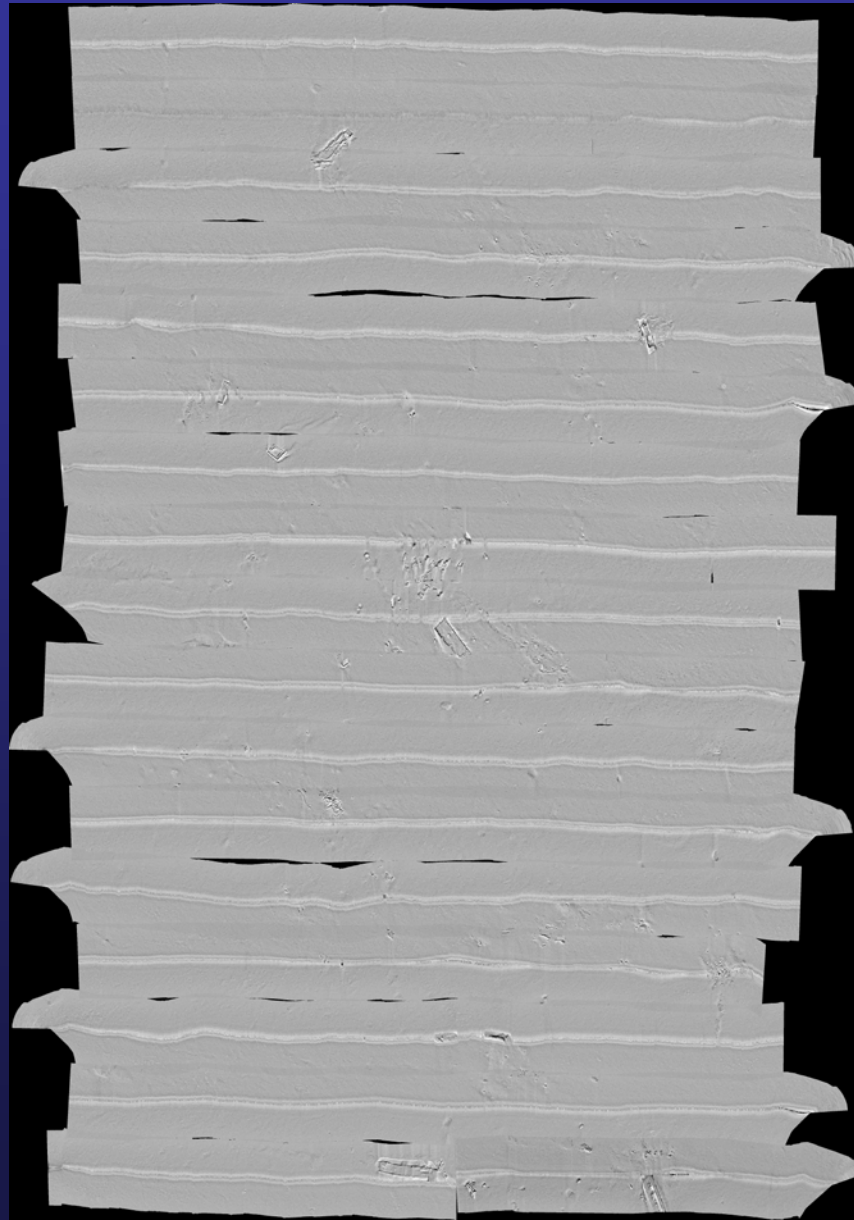
FH - 2

Pre-Hurricane

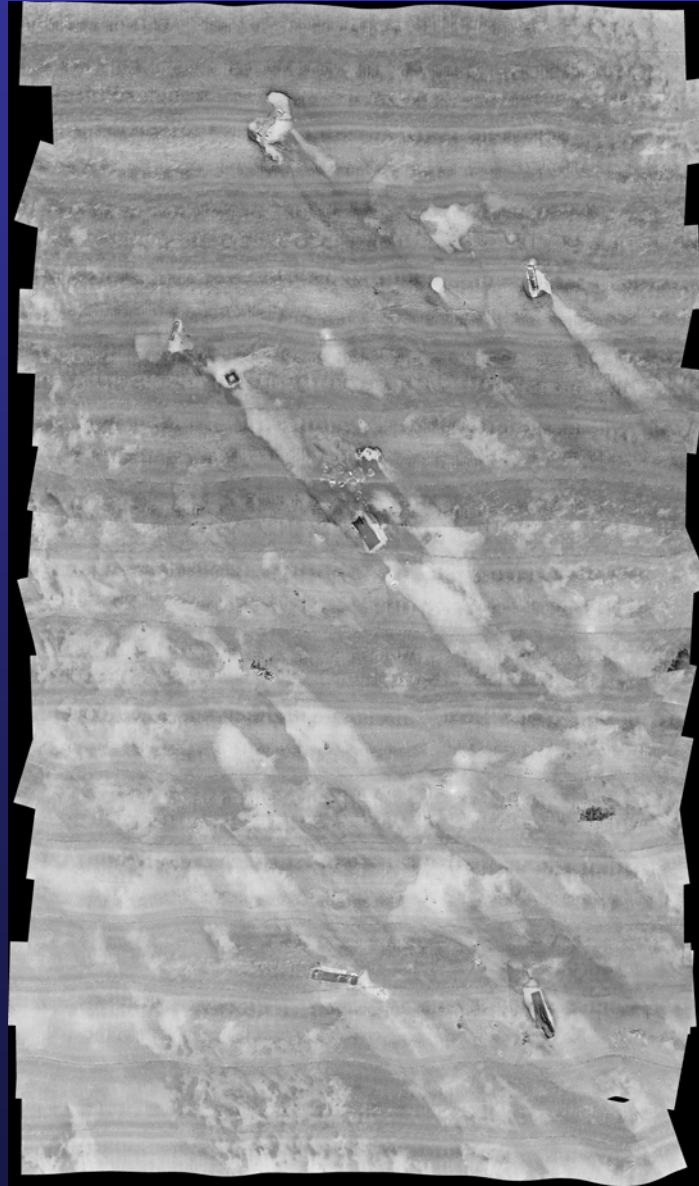
Post Hurricane



FH – 1 Pre-Hurricane



FH – 1 Post Hurricane



FH - 1

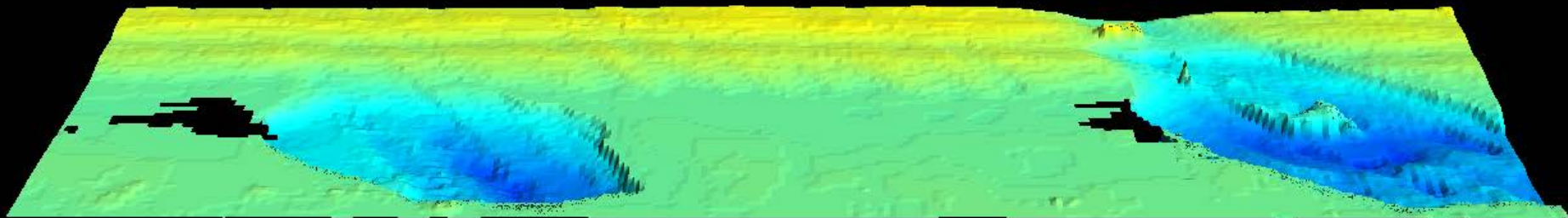
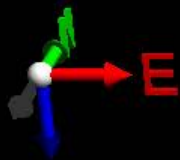


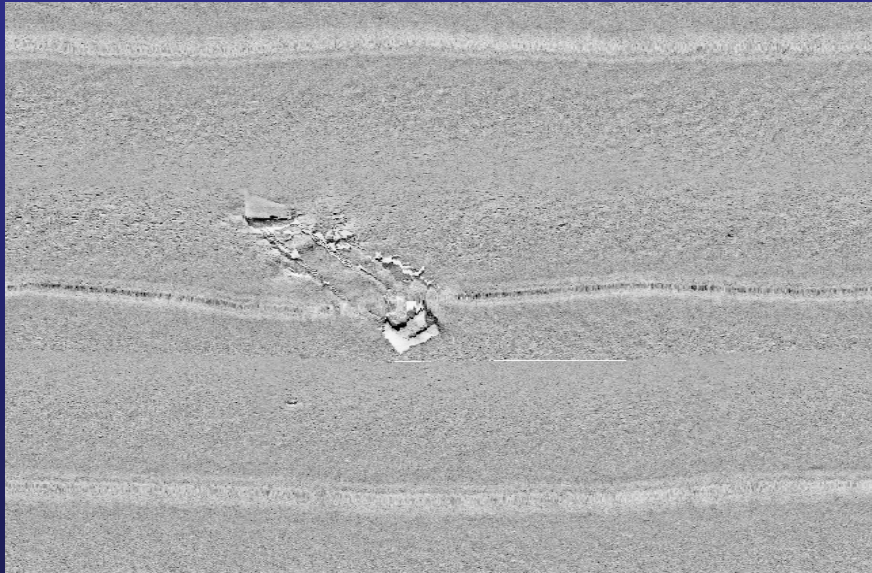
Pre-Hurricane

Post Hurricane



Triton 3D Contact
Bathymetry Contact [Layer grid00002]
Minimum Depth : 14.80 m
Maximum Depth : 5.60 m





FH - 1



Pre-Hurricane

Post Hurricane

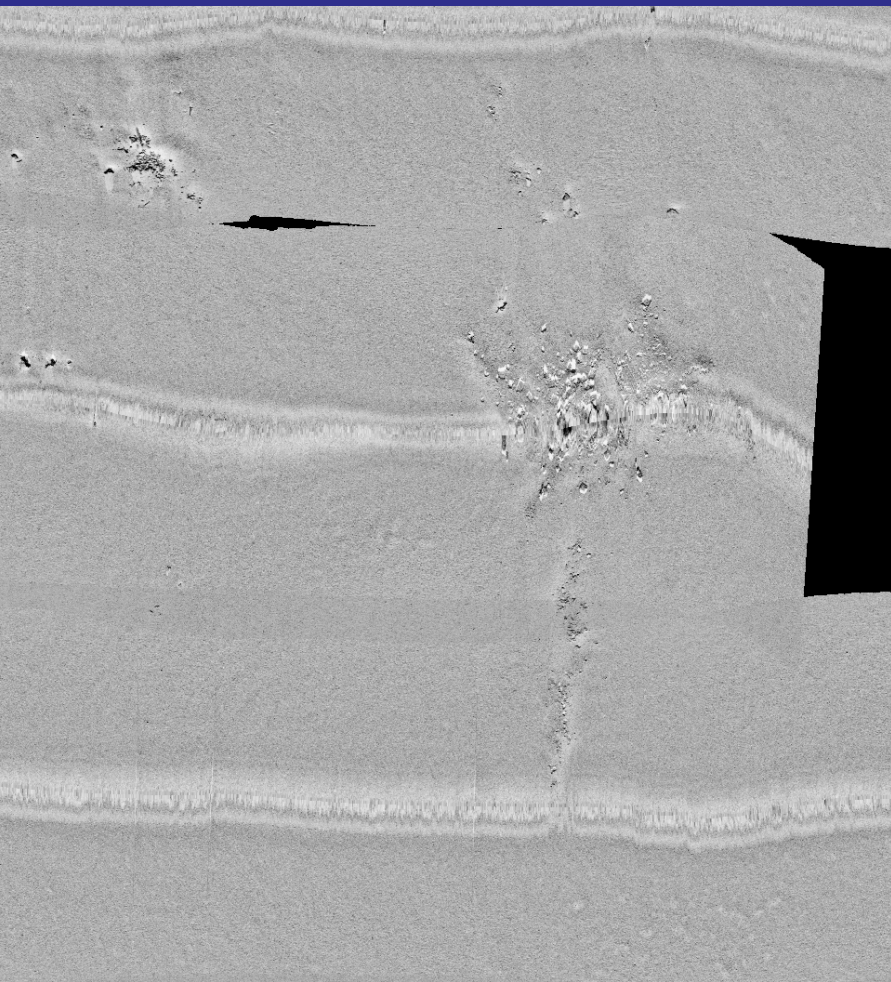


FH - 1

Pre-Hurricane

Post Hurricane

↑
N



Discussion

- Water Depths
- Lost Material of Selected Reefs.
- Economic Loss
- Future Plans